

## United States Patent and Trademark Office

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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

11/12/2004

Philmore H. Colburn II 55 Griffin Road South Bloomfield, Ct. 06002 Poughkeepsie, NY 12601

EXA	MINER
ZHI	EN, LI B
ART UNIT	PAPER NUMBER
2126	

DATE MAILED: 11/12/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,316	12/21/2000	Stephen J. Kinder	POU92000165US1	5881

TITLE OF INVENTION: METHOD FOR CREATING PATH-SENSITIVE BRANCH REGISTRY FOR CYCLIC DISTRIBUTED TRANSACTIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	02/14/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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Technology Center 2100

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

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55 Griffin Road So				I hereby certify that	this Fee(s) Transmittal is being e with sufficient postage for fir lail Stop ISSUE FEE address SPTO (703) 746-4000, on the d	g deposited with the United
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Poughkeepsie, NY	12601			transmitted to the US	SPTO (703) 746-4000, on the d	
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APPLICATION NO.	FILING DATE	F	IRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,316	12/21/2000		Stephen J. Kinde		POU92000165US1	5881
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APPLN. TYPE	SMALL ENTITY	ISSUE FE	E PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370		\$300	\$1670	02/14/2005
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ZHEN	, LI B	2126		718-101000		
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PTO/SB/47; Rev 03-02 o Number is required.	ion (or "Fee Address" Indica or more recent) attached. Use	of a Customer	2 registered attorney 2 registered patent listed, no name wi	attorneys or agents.	If no name is 3	
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PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	ow, no assignee defined this form is NOT	lata will appear on t a substitute for filin	ne patent. If an assig g an assignment.	gnee is identified below, the d	ocument has been filed for
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Advance Order - # of Copies The Direction		The Director is I	ereby authorized by	charge the required fee(s), or	credit any overpayment, to	
	(from status indicated above)		Deposit Account Nu	nber	(enclose an extra co	opy of this form).
_ ` .	MALL ENTITY status. See 3		b. Applicant is no	longer claiming SM.	ALL ENTITY status. See 37 Cl	FR 1.27(g)(2).
The Director of the USPTO in NOTE: The Issue Fee and Punterest as shown by the reco	is requested to apply the Issu ablication Fee (if required) wards of the United States Pate	Fee and Publication ill not be accepted at and Trademark C	on Fee (if any) or to from anyone other the Office.	re-apply any previou an the applicant; a re	sly paid issue fee to the applica gistered attorney or agent; or the	tion identified above. ne assignee or other party in
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in application. Confidentiality upmitting the completed applies form and/or suggestions to 1450. Alexandria. Virginal Confidential Conf	ty is governed by 35 U.S.C. plication form to the USPTC for reducing this burden, should be used to 1450.	1.22 and 37 CFR 1.  2. Time will vary doubt be sent to the CEND FEES OR CO	.14. This collection in the interest of the in	s estimated to take 12 ndividual case. Any fficer, U.S. Patent an S TO THIS ADDRE	y the public which is to file (and 2 minutes to complete, includin comments on the amount of tir d Trademark Office, U.S. Depp SS. SEND TO: Commissioner	ng gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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09/742,316	12/21/2000	Stephen J. Kinder	POU92000165US1	5881
75	590 11/12/2004	• .	EXAM	INER
Philmore H. Colb			ZHEN	, LI B
Bloomfield, Ct. 060			ART UNIT	PAPER NUMBER
Poughkeepsie, NY	12601		2126	
			DATE MAILED: 11/12/200	4

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 781 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 781 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	09/742,316	KINDER ET AL.
Notice of Allowability	Examiner	Art Unit
	Li B. Zhen	2126
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicati IGHTS. This application is subject	application. If not included on will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>response file 6/25/20</u>	04 and interview on 7/4/2004.	
2. The allowed claim(s) is/are 16-33, renumbered as 1-18.	·	
3. The drawings filed on 18 July 2001 are accepted by the Ex	kaminer.	
4. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner' Paper No./Mail Date  Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the paper No. The deposit of the proper No. The deposit of the priority documents and the priority documents	e been received. e been received in Application No. cuments have been received in the of this communication to file a rep MENT of this application.  hitted. Note the attached EXAMINE es reason(s) why the oath or decla st be submitted. son's Patent Drawing Review ( PT  s Amendment / Comment or in the last(c)) should be written on the dra the header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	is national stage application from the ally complying with the requirements  ER'S AMENDMENT or NOTICE OF aration is deficient.  O-948) attached  Coffice action of wings in the front (not the back) of e1(d).  L must be submitted. Note the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. ⊠ Interview Summa Paper No./Mail I 08), 7. ⊠ Examiner's Amer	Date <u>11/04/2004</u> .
		MENZ-AL T. AN SORY PATENT EXAMINER NOLOGY CENTER 2100

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Marisa J. Dubuc on November 4 and 5, 2004.

The application has been amended as follows:

- a. Replace claims 16, 18 and 26 with the following:
- 16. A method for managing a distributed transaction comprising one or more transaction flows between respective pairs of nodes in a network of interconnected nodes, each of said transaction flows being accompanied by an originating node identifier identifying the originating node, said method being performed by one of said nodes as a local node and comprising the steps of:

maintaining a registry comprising zero or more entries corresponding to inbound flows from other nodes, each of said entries containing the originating node identifier accompanying the corresponding inbound flow and a local node identifier identifying the local node, said local node identifier being used to identify the local node in outbound transaction flows to other nodes resulting from said inbound flow;

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upon receiving an inbound flow from another node, determining whether there is an entry in said registry for the originating node identifier accompanying said inbound flow;

if there is no entry for said originating node identifier and there is no entry for another inbound flow for the same transaction, creating an entry in said registry containing said originating node identifier and a local node identifier identifying the local node; and

if there is an entry for another inbound flow for the same transaction, creating an entry in said registry containing the originating node identifier accompanying said inbound flow and a local node qualifier identifying the local node that is different from any other local node identifier in said registry for that transaction.

18. A method for providing a path-sensitive branch registry for cyclic distributed transactions, comprising:

receiving a flow from a superior node in a cyclic distributed transaction tree, the flow including a global tree identification and a branch qualifier;

for each subordinate node in the transaction tree:

searching a registry of the subordinate node for the global tree identification and the branch qualifier;

if there is no entry for said global tree identification and there is no entry for another inbound flow for the same transaction, creating an entry in said registry

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containing said global tree identification and a branch qualifier identifying the subordinate node; and

if there is an entry for another inbound flow for the same transaction, creating an entry in said registry containing the global tree identification accompanying said inbound flow and a branch qualifier identifying the subordinate node that is different from any other branch qualifier in said registry for that transaction.

26. A system for utilizing a path-sensitive branch registry for cyclic distributed transactions, the system comprising:

a plurality of nodes in a cyclic distribution tree, the plurality of nodes include a superior node and subordinate nodes;

a flow initiated by the superior node and received by a first of the subordinate nodes, the flow including a global tree identification and a branch qualifier;

wherein for each subordinate node in the transaction tree:

a registry of the subordinate node is searched for the global tree identification and the branch qualifier;

if there is no entry for said global tree identification and there is no entry for another inbound flow for the same transaction, an entry is created in said registry containing said global tree identification and a branch qualifier identifying the subordinate node; and

if there is an entry for another inbound flow for the same transaction, an entry is created in said registry containing the global tree identification accompanying

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said inbound flow and a branch qualifier identifying the subordinate node that is different

from any other branch qualifier in said registry for that transaction.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768.

The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Li B. Zhen Examiner

Art Unit 2126

lbz

MENG-AL T. AN SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100

## Application No. Applicant(s) KINDER ET AL. 09/742.316 Interview Summary Art Unit Examiner 2126 Li B. Zhen All participants (applicant, applicant's representative, PTO personnel): (1) Marisa J. Dubuc. (3)\_\_\_\_. (4)\_\_\_\_\_. (2) Li B. Zhen. Date of Interview: Nov. 4 and 5, 2004. Type: a) ☐ Telephonic b) ☐ Video Conference c) Personal [copy given to: 1) applicant 2) applicant's representative Exhibit shown or demonstration conducted: d) Yes e) No. If Yes, brief description: \_\_\_\_\_. Claim(s) discussed: 16,18 and 26. Identification of prior art discussed: N/A. Agreement with respect to the claims f) was reached. g) was not reached. h) N/A. Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Examiner notified applicant that claim 16 would be allowable if amended to clarify an inconsistency with one of the limitations and claims 18 and 26 would be allowable if amended to recite similar limitations as claim 16. Applicant agreed to the examiner's suggestion for the claims and will send the examiner a draft amendment. Applicant gave examiner permission to amend the claims according to the draft amendment in an examiner's amendment. (A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.) THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

## **Summary of Record of Interview Requirements**

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

## Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner \_\_
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner.
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
  - (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

### **Examiner to Check for Accuracy**

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

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